APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/871,485	05/31/2001	Hovhannes Ghukasyan	HPLA.005US0	8744

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EXAMINER
NGUYEN, TAM V

ART UNIT	PAPER NUMBER
2172	

DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _31 May 2001_ .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-10_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-10_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____ .

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _7_ .

4)☐ Interview Summary (PTO-413) Paper No(s). _____ .
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: .

DETAILED ACTION

1.   Claims 1-10 are pending in this action. Claims 1-10 are presented for

examination. This action is in response to the filing dated 5/31/01.

Information Disclosure Statement

2.   The reference cited in the IDS, PO-1449, Paper No. 7, have been considered.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Suver (US 6016497).

With respect to claims 1 and 9, Suver discloses a data dictionary including

identifications of related groups of tables in a database, information of tables in said

related groups, and identifications of parameters of said related groups, (col. 8, lines

46-59 and col. 9, lines 41-46); *a data importer receiving an input including data to*

be imported into said database, and indication of one or said related groups that

is associated with said data, and indications of parameter associated with said

data, (col. 8, lines 46-59 and col. 9, lines 41-46), w*herein said data importer*

appends one or more portions of said data associated with existing parameters

to corresponding one or more existing tables associated with said existing

parameters and having tables of said one of said related groups as reference,

appends data associated with new parameters to a new table created for said

new parameters, and updates said data dictionary to include said identifications

and information of said new table and new parameters, (col. lines 20-col. 21,

lines 30). Suver does not explicitly discloses a data importer. However, as taught by

Suver, the principal downside for this conventional database architecture is that it

forces the database designer to physically decompose complex business objects into

multiple tables. This is manifested via the multiple tables 302, 303 for customer

addresses and customer telephone numbers, which permit multiple rows to reflect that

a customer may have multiple addresses or telephone numbers. Although the

architecture is very fast for accessing simple data that can be stored in a single table,

multiple tables complicate schema design and considerably slow access to complex

objects. A database engine must join multiple rows from multiple tables simply to

recompose a business object that was originally just one data "item" in the real world,

e.g. a customer with more than one telephone number, (col. 8, lines 46-59). Thus, the

database designer to physically decompose complex business objects into multiple

table is *a data importer. Therefore it would have been obvious have been*

obvious to one of ordinary skill in the art at the time the invention was made to

modify Suver by including a data importer. By doing so, the information in

object relational database would allow the user to manipulate as a virtual table,

(col. 1, lines 9-11).

As to claim 2, a query front-end providing a parameter tree to be displayed to users for facilitating database queries, wherein said data dictionary further includes information for said parameter tree, and said data importer further updates said information for said parameter tree to include information of said new table and new parameter, (col. 21, lines 30-46).

As to claim 3, wherein said data dictionary has a reference groups table for storing indications of related groups of tables for storing indications of related groups of tables, and including columns for reference groups identifications and reference groups names, (col. 21, lines 30-46).

As to claim 4, wherein said data dictionary has a reference table for storing information of reference tables for individual of said related group of tables, (col. 8, lines 46-59).

As to claim 5, wherein said data dictionary has a parameters table for storing information of parameters associated with individual of said related group of tables, (col. 8, lines 46-59).

As to claim 6, wherein said data dictionary has a folders table for storing information of a parameter tree to be provided to said query front-end, (col. 12, lines 37-49).

As to claim 7, wherein said data dictionary has a parameters associated with individual of said related group of tables, (col. 8, lines 46-59).

As to claim 8, wherein said data dictionary has a parameters to folders mapping table for mapping said information of parameters to corresponding information in said folder table, (col. 12, lines 37-49).

As to claim 10, identifying said one or more existing tables having said related group of tables as references in said database from information in said data dictionary linking said one or more existing table to said existing parameter, (col. 14, lines 14-23).

Conclusion

5.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mehr et al. (US 6438547B1) shows computer-readable data product for managing sales information

Loaiza (US 5809495) shows method for obtaining information regarding the current activity of a database management system from a virtual table in a memory of the database management.

Herbert, III (US 6018742) shows constructing a bifurcated database of context-dependent and context-independent data items.

Mital et al. (US 6189012B1) shows apparatus and method for storing, navigating among and adding links between data item.

Contact Information

6.   Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

7.   Any inquiry concerning this communication or earlier communications

from the examiner should be directed to Tam V Nguyen whose telephone number

is (703) 305-3735. The examiner can normally be reached on 7:30AM-5: 00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, Kim Yen Vu can be reached on (703) 305-4393. The fax phone numbers
for the organization where this application or proceeding is assigned are (703) 746-
7239 for formal communications and (703) 746-7240 for informal communications.
    Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, Virginia 22202. Fourth Floor (Receptionist).

8.   Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-305-

3900.

TV:tv

06/11/03

SHAHID AL ALAM
PATENT EXAMINER